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» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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1. **A situation-aware mobile traffic information system**
Balke, W.-T.; Kiessling, W.; Unbehend, C.;
System Sciences, 2003. Proceedings of the 36th Annual Hawaii International C
6-9 Jan 2003 Page(s):10 pp.
Digital Object Identifier 10.1109/HICSS.2003.1174832
AbstractPlus | Full Text: PDF(1379 KB) IEEE CNF
Rights and Permissions

2. **Integrated databases for the utility engineering environment**
Armstrong, J.K.;
Rural Electric Power Conference, 1992. Papers Presented at the 36th Annual
3-5 May 1992 Page(s):D1/1 - D1/5
Digital Object Identifier 10.1109/REPCON.1992.178934
AbstractPlus | Full Text: PDF(296 KB) IEEE CNF
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3. **Phone number portability for PCS systems with ATM backbones using di dynamic hashing**
Ravi Jain; Rajagopalan, S.; Li Fung Chang;
Selected Areas in Communications, IEEE Journal on
Volume 15, Issue 1, Jan. 1997 Page(s):96 - 105
Digital Object Identifier 10.1109/49.553681
AbstractPlus | References | Full Text: PDF(400 KB) IEEE JNL
Rights and Permissions

4. **RDF model and relational metadata**
Imai, A.; Yukita, S.;
Advanced Information Networking and Applications, 2003. AINA 2003. 17th Int
Conference on
27-29 March 2003 Page(s):534 - 537
Digital Object Identifier 10.1109/AINA.2003.1192938
AbstractPlus | Full Text: PDF(436 KB) IEEE CNF
Rights and Permissions

5. **Personalized karaoke**
Xian-Sheng Hua; Lie Lu; Hong-Jiang Zhang;
Information, Communications and Signal Processing, 2003 and the Fourth Pac
Conference on Multimedia, Proceedings of the 2003 Joint Conference of the F

10/693,178

Conference on
Volume 1, 15-18 Dec. 2003 Page(s):11 - 15 Vol.1
Digital Object Identifier 10.1109/ICICS.2003.1292403

AbstractPlus | Full Text: PDF(456 KB) IEEE CNF
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6. **Data conversion between IS&C format and DICOM format images in a per environment**
Ando, Y.; Kawaguchi, O.; Kitamura, M.; Ogasawara, K.; Kubo, A.; Arai, Y.;
Image Management and Communications, 1995., Proceedings of the Fourth In
Conference on
20-24 Aug. 1995 Page(s):97 - 102
Digital Object Identifier 10.1109/IMAC.1995.532568

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1. **Classroom assistant for real-time information retrieval**
   Wei Jyh Heng; Yu Chen; Zixiang Yang; Qibin Sun;
   Information Technology: Research and Education, 2003. Proceedings. ITRE2C Conference on
   11-13 Aug. 2003 Page(s):436 - 439
   Digital Object Identifier 10.1109/ITRE.2003.1270653
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☐	L35	l34 and less$	0
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☐	L32	L29 and (email or e-mail or (electronic adj1 mail))	32
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☐	L28	(L26 or L27) and (synchron$ near (convers$ or encrypt$ or crypt$))	0
☐	L27	L25 and (synchroniz$ near (database$ or (data adj1 base$) or (data adj1 bank$) or databank$))	15
☐	L26	(L20 or L21 or L22 or L23 or L24 or L25) and (synchroniz$ near (cpu$ or computer$ or processor$ or terminal$))	156
☐	L25	(709/230 |709/231).ccls.	1795
☐	L24	(709/203).ccls.	3523
☐	L23	(707/201).ccls.	1098
☐	L22	(707/200).ccls.	1454
☐	L21	(707/101).ccls.	1898
☐	L20	(707/10).ccls.	4459
☐	L19	L17 and (database$ or (data adj1 base$) or (data adj1 bank$) or databank$)	10
☐	L18	L17 and (synchroniz$ near (database$ or (data adj1 base$) or (data adj1 bank$) or databank$))	0
☐	L17	L16 and (synchron$ near (convers$ or encrypt$ or crypt$))	34
☐	L16	(synchroniz$ near (cpu$ or computer$ or processor$ or terminal$))	6228
		DB=USPT; PLUR=NO; OP=OR	
☐	L15	L7 and (name or address or (phone adj1 number$))	22
☐	L14	L13 and (pda or (personal adj1 digital adj1 assistance))	84
☐	L13	(L11 or L12) and (databases or (data adj1 bases) or ((primary or host or first) near (database$ or (data adj1 base$))))	784
☐	L12	synchroniz$.ab.	27437
☐	L11	synchroniz$.ti.	9430
☐	L10	(L1 and L2) and (pda or (personal adj1 digital adj1 assistance))	1

10/693,173

☐	L9	L8 and (pda or (personal near digital near assistant))	1
☐	L8	6799190.pn.	1
☐	L7	(L3 or L4 or L5) and (telephone or call or calls)	25
☐	L6	(L3 or L4 or L5) and (pda or (personal near digital near assistant))	5
☐	L5	(L3 or L4) and (databases or (data adj1 bases) or ((primary or host or first) near (database$ or (data adj1 base$))))	21
☐	L4	(L1 or L2) and synchroniz$.ab.	37
☐	L3	(L1 or L2) and synchroniz$.ti.	19
☐	L2	(L1).pn. (5991390 6026439 6035246 6052688 6072891 6098058 6154751 6161145 6175842 6178510 3614737 3573730 3697984 3900797 3853010 3836768 3814841 3809814 3808373 4023753 4246638 4259720 4263649 4273962 4275449 4285039 4295039 4329191 4349196 4351023 4360875 4361851 4362928 4375101 4379497 4390953 4408291 4408203 4455453 4456972 4461028 4471163 4472626 4476381 4484273 4486828 4497066 4495851 4502038 4519069).pn. (4525859 4542808 4550402 4561105 4573196 4590468 4591823 4591705 4591704 4601011 4608631 4610206 4613979 4613965 4629164 4761543 4766418 4779198 4785563 4787033 4790118 4791675 4792899 4812627 4819154 4829445 4829451 4835711 4837568 4845744 4856066 4866756 4866771 4870419 4870683 4871085 4876717 4882474 4885779 4888638 4890098 4894857 4896273 4907268 4916611 4930604 4932022 4935635 4937581 4937742).pn. (4939672 4944827 4956770 4959855 4960982 4975969 4987587 4991087 4994969 4996714 4997144 5001710 5003317 5008930 5012522 5019976 5020105 5023868 5179701 5184314 5185727 5187790 5193114 5196846 5202828 5202921 5202929 5204663 5204961 5208756 5214269 5216672 5220511 5222062 5222152 5225976 5226040 5226080 5227967 5233510 5245329 5247161 5247575 5252953 5255183 5263157 5264828 5265033 5265238 5267314).pn. (5274714 5280586 5283733 5285383 5288980 5289183 5289369 5297283 5298725 5299134 5301275 RE34587 5307086 5309504 5311596 5319754 5321396 5321841 5325156 5325294 5337043 5341293 5343559 5353009 5354097 5361216 5363449 5364047 5365310 5375058 5381136 5387993 5388224 5392353 5400403 5404518 5408536 5412188 5414626 5418657 5418854 5420988 5420999 5422884 5432851 5446883 5450122 5465308 5467403 5469371).pn. (5469504 5469545 5471611 5473143 5473691 5475747 5481710 5488408 5490079 5491672 5497412 5497421 5507031 5509074 5511109 5511227 5513002 5513250 5513334 5515295 5515516 5517429 5519260 5519607 5521984 5523854 5524073 5526198 5530905 5533103 5534855 5535411 5539400 5544255 5546348 5548660 5550359 5553119 5555303 5557679 5560005 5561790 5568639 5576972 5579481 5581787 5586936 5594786 5598562 5604662).pn.	299
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1 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(340.33 KB) Additional Information: full citation, abstract, references, index terms, review

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

2 A cost-efficient signaling protocol for mobility application part(MAP) in IMT-2000 systems

Wenye Wang, Ian F. Akyildiz

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(239.98 KB) Additional Information: full citation, abstract, references, index terms

An efficient signaling protocol for mobility application part (MAP) is essential to mobility support when mobile terminals roam between different networks in next generation wireless systems such as IMT-2000. In this paper, a new signaling protocol is proposed to reduce the overhead caused by mobility management, alleviating network load and consumption of network resources. Moreover, the new protocol effectively reduces the latency of call delivery and call loss rate due to crossing wireless ...

3 A federated architecture for information management

Dennis Heimbigner, Dennis McLeod

July 1985 **ACM Transactions on Information Systems (TOIS)**, Volume 3 Issue 3

10/693,175

Publisher: ACM Press

Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, citings, index terms

An approach to the coordinated sharing and interchange of computerized information is described emphasizing partial, controlled sharing among autonomous databases. Office information systems provide a particularly appropriate context for this type of information sharing and exchange. A federated database architecture is described in which a collection of independent database systems are united into a loosely coupled federation in order to share and exchange information. A federation consist ...

4 A framework for constructing features and models for intrusion detection systems

Wenke Lee, Salvatore J. Stolfo

November 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(187.03 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, we need a more systematic and automated IDS development process rather that the pure knowledge encoding and engineering approaches. This article describes a novel framework, MADAM ID, for Mining Audit Data for Automated Models for Instrusion ...

Keywords: data mining, feature construction, intrusion detection

5 A mechanism for automatic object locking in C++-based object-oriented databases

Yong S. Jun, Suk I. Yoo

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Publisher: ACM Press

Full text available: pdf(960.91 KB) Additional Information: full citation, references, index terms

Keywords: OODBMS, OODBPL, locking

6 A model for compound type changes encountered in schema evolution

Barbara Staudt Lerner

March 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(430.66 KB) Additional Information: full citation, abstract, references, citings, index terms

Schema evolution is a problem that is faced by long-lived data. When a schema changes, existing persistent data can become inaccessible unless the database system provides mechanisms to access data created with previous versions of the schema. Most existing systems that support schema evolution focus on changes local to individual types within the schema, thereby limiting the changes that the database maintainer can perform. We have developed a model of type changes involving multiple types ...

Keywords: persistent programming languages, schema evolution

7 A model of OASIS role-based access control and its support for active security

Jean Bacon, Ken Moody, Walt Yao

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(352.06 KB) Additional Information: full citation, abstract, references, citings, index terms

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate subject to service level agreements (SLAs). Services define roles and implement formally specified policy to control role activation and service use; users must present the required credentials, in an appropriate context, in order to activat ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

8 A normal form for relational databases that is based on domains and keys

Ronald Fagin

September 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, citings, index terms

A new normal form for relational databases, called domain-key normal form (DK/NF), is defined. Also, formal definitions of insertion anomaly and deletion anomaly are presented. It is shown that a schema is in DK/NF if and only if it has no insertion or deletion anomalies. Unlike previously defined normal forms, DK/NF is not defined in terms of traditional dependencies (functional, multivalued, or join). Instead, it is defined in terms of the more primitive concepts of domain and key, along ...

Keywords: DK/NF, anomaly, complexity, database design, domain-key normal form, functional dependency, join dependency, multivalued dependency, normalization, relational database

9 A shared, segmented memory system for an object-oriented database

Mark F. Hornick, Stanley B. Zdonik

January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available: pdf(2.05 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper describes the basic data model of an object-oriented database and the basic architecture of the system implementing it. In particular, a secondary storage segmentation scheme and a transaction-processing scheme are discussed. The segmentation scheme allows for arbitrary clustering of objects, including duplicates. The transaction scheme allows for many different sharing protocols ranging from those that enforce serializability to those that are nonserializable and require communi ...

10 A survey and analysis of Electronic Healthcare Record standards

Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci

December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: pdf(844.11 KB) Additional Information: full citation, abstract, references, index terms

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

11 Aggregate operators in probabilistic databases

Robert Ross, V. S. Subrahmanian, John Grant
January 2005 **Journal of the ACM (JACM)**, Volume 52 Issue 1
Publisher: ACM Press
Full text available: pdf(816.92 KB) Additional Information: full citation, abstract, references, index terms

Though extensions to the relational data model have been proposed in order to handle probabilistic information, there has been very little work to date on handling aggregate operators in such databases. In this article, we present a very general notion of an aggregate operator and show how classical aggregation operators (such as COUNT, SUM, etc.) as well as statistical operators (such as percentiles, variance, etc.) are special cases of this general definition. We devise a formal linear program ...

Keywords: Aggregates, probabilistic relational databases

12 Algebraic query optimisation for database programming languages

Alexandra Poulovassilis, Carol Small
April 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(193.10 KB) Additional Information: full citation, abstract, citings, index terms

A major challenge still facing the designers and implementors of database programming languages (DBPLs) is that of query optimisation. We investigate algebraic query optimisation techniques for DBPLs in the context of a purely declarative functional language that supports sets as first-class objects. Since the language is computationally complete issues such as non-termination of expressions and construction of infinite data structures can be investigated, whilst its declarative nature allows th ...

Keywords: Algebraic manipulation, Database management, Database programming languages, Functional languages, Query optimisation

13 Algebraic support for complex objects with arrays, identity, and inheritance

Scott L. Vandenberg, David J. DeWitt
April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data SIGMOD '91**, Volume 20 Issue 2
Publisher: ACM Press
Full text available: pdf(1.16 MB) Additional Information: full citation, references, citings, index terms

14 An adaptive data replication algorithm

Ouri Wolfson, Sushil Jajodia, Yixiu Huang
June 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(911.08 KB) Additional Information: full citation, abstract, references, citings, index terms

This article addresses the performance of distributed database systems. Specifically, we present an algorithm for dynamic replication of an object in distributed systems. The algorithm is adaptive in the sence that it changes the replication scheme of the object i.e., the set of processors at which the object inreplicated) as changes occur in the read-write patern of the object (i.e., the number of reads and writes issued by each processor). The algorithm continuously moves the replication ...

Keywords: computer networks, dynamic data allocation, file allocation, replicated data

15 An application of a context-aware file system

Christopher K. Hess, Roy H. Campbell

December 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 6

Publisher: Springer-Verlag

Full text available: pdf(383.26 KB) Additional Information: full citation, abstract, citings, index terms

Ubiquitous computing environments stretch the requirements of traditional infrastructures used to facilitate the development of applications. Activities are often supported by collections of applications, some of which are automatically launched with little or no human intervention. This task-driven environment challenges existing application construction and data management techniques. In this paper, we describe a file system that organises application data based on contextual information, impo ...

Keywords: Context, Data management, File systems, Operating systems, Ubiquitous computing spaces

16 An architecture for automatic relational database sytem conversion

Ben Shneiderman, Glenn Thomas

June 1982 **ACM Transactions on Database Systems (TODS)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, citings, index terms

Changes in requirements for database systems necessitate schema restructuring, database translation, and application or query program conversion. An alternative to the lengthy manual revision process is proposed by offering a set of 15 transformations keyed to the relational model of data and the relational algebra. Motivations, examples, and detailed descriptions are provided.

Keywords: automatic conversion, database systems, relational model, transformations

17 An axiomatic model of dynamic schema evolution in objectbase systems

Randel J. Peters, M. Tamer Özsu

March 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(647.83 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic schema evolution, object database management systems

18 An extensible query model and its languages for a uniform behavioral object management system

Randal J. Peters, Anna Lipka, M. Tamer Özsu, Duane Szafron

December 1993 **Proceedings of the second international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

19 An overview of three commercial object-oriented database management systems: ONTOS, ObjectStore, and O2

Valery Soloviev

March 1992 **ACM SIGMOD Record**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, citings, index terms

We present an analysis of three current object-oriented DBMS products: ONTOS, ObjectStore, and O2, as described by their available documentation. The most attractive feature of ONTOS and Object-Store is their use of C++ as a user interface - a widespread object-oriented language. They also provide persistent data implementation, transaction and recovery mechanisms, and modern application development tool sets following the recommendations of [Atkinson et al. 89]. O2 was chosen for a well-de ...

20 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(351.86 KB) Additional Information: full citation, abstract, citings, index terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML